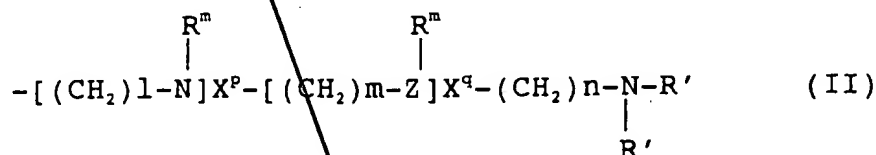
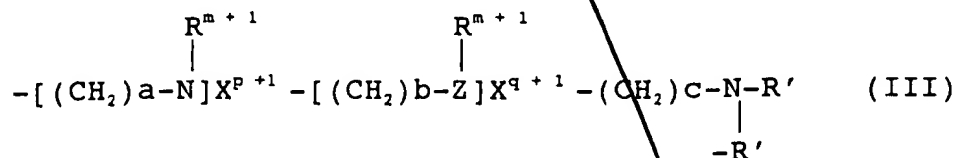


wherein the base skeleton may contain an amide bond; Z represents a carbon or nitrogen atom; R' represents hydrogen, a cholesterol residue, a saturated or unsaturated alkyl group, a saturated or unsaturated acyl group, a saturated or unsaturated acyloxycarbonyl group, or a phospholipid residue; two R's binding to the same nitrogen atom can be identical or different; a side chain R<sub>1</sub> is hydrogen, a cholesterol residue, saturated or unsaturated alkyl group, saturated or unsaturated acyl group, or saturated or unsaturated acyloxycarbonyl group, phospholipid residue, or below formula (II); and p, q, r, X<sup>n</sup>, X<sup>m</sup> represent arbitrary natural numbers:



wherein the base skeleton and the side chain R<sup>m</sup> may contain an amide bond; Z represents a carbon or nitrogen atom; R' represents hydrogen, a cholesterol residue, a saturated or unsaturated alkyl group, a saturated or unsaturated acyl group, a saturated or unsaturated acyloxycarbonyl group, or a phospholipid residue; two R's binding to the same nitrogen atom can be identical or different; R<sup>m</sup> is hydrogen, a cholesterol residue, a saturated or unsaturated alkyl group, a saturated or unsaturated acyl group, or a saturated or unsaturated acyloxycarbonyl group, a phospholipid residue, or below formula (III); and l, m, n, X<sup>p</sup>, X<sup>q</sup> represent arbitrary natural numbers:



wherein the base skeleton and the base skeleton of the side chain R<sup>m+1</sup> may contain an amide bond; Z represents a carbon or nitrogen atom; R' represents hydrogen, a cholesterol residue, a saturated

A1  
CMT

SUB  
B  
CMT

or unsaturated alkyl group, a saturated or unsaturated acyl group, a saturated or unsaturated acyloxycarbonyl group, or a phospholipid residue; two R's binding to the same nitrogen atom can be identical or different; and a, b, c,  $X^{p+1}$ ,  $X^{q+1}$  represent arbitrary natural numbers.

29. The composition of Claim 26, comprising the repeating structure of formula (IV) in the base skeleton:



30. The compositions of Claim 29, wherein two to five molecules of tetraethylenepentamine are linked in a linear manner.

31. The composition of Claim 30, wherein any two or more of side chains  $R'$ ,  $R^1$ ,  $R^m$ , or  $R^{m+1}$  comprise a group selected from the group consisting of ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, and eicocyl groups.

32. The composition of Claim 30, wherein any two or more of side chains  $R'$ ,  $R^1$ ,  $R^m$ , or  $R^{m+1}$  comprise a group selected from the group consisting of a butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, and octadecyl groups.

33. The composition of Claim 29, wherein the structure containing the formula (IV) are linked in a branched manner.

34. The composition of Claim 33, wherein any two or more of side chains  $R'$ ,  $R^1$ ,  $R^m$ , or  $R^{m+1}$  comprise a group selected from the group consisting of ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, and eicocyl groups.

35. The composition of Claim 33, wherein any two or more of side chains  $R'$ ,  $R^1$ ,  $R^m$ , or  $R^{m+1}$  comprise a group selected from the group consisting of butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, and octadecyl groups.

SUB  
B  
CONT.

AI  
CONT

RECEIVED  
SUB  
B2

AI  
CONT

503  
B4

1000000  
 900000  
 800000  
 700000  
 600000  
 500000  
 400000  
 300000  
 200000  
 100000  
 0  
 -100000  
 -200000  
 -300000  
 -400000  
 -500000  
 -600000  
 -700000  
 -800000  
 -900000  
 -1000000

45. The composition of Claim 44, wherein the phospholipid comprises phosphatidylethanolamine or phosphatidylcholine skeleton.

gwb  
DE

SUB  
B5  
CONF.

A1  
CMT

SUB  
B6

46. The composition of Claim 45, wherein the phospholipid is dioleoylphosphotidylethanolamine, or phosphotidylcholine.

47. A complex comprising a physiologically active substance comprising a negative charge and a composition of Claim 26.

48. The complex of Claim 47, wherein the physiologically active substance comprising a negative charge is a nucleic acid or its derivative.

49. A method for introducing a physiologically active substance comprising a negative charge to cells, said method comprising a step of contacting the complex of Claim 47 with cells.

50. A kit for preparing the composition of Claim 44, comprising phospholipid and a polyalkylenimine having two or more hydrophobic groups per molecule or its salt.

#### REMARKS

The present amendment conforms the claims of this application to U.S. practice.

If there are any charges, or any credits, please apply them to Deposit Account

No. 03-2095.

Respectfully submitted,

Date: August 28, 2000

Susan M. Michaud  
Paul T. Clark      Susan M. Michaud  
Reg. No. 30,162      Reg. No. 42,885

Clark & Elbing LLP  
176 Federal Street  
Boston, MA 02110  
Telephone: 617-428-0200  
Facsimile: 617-428-7045